

Flexible, size adjustable foil with electrically controlled transparency

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Abstract of DE19644913

The light transparency is adjusted by the flexible foil, consisting of two or more polarisation foils, between which a liquid crystal is filled in individual chambers. The latter are surrounded by transparent strips, forming spacers for adjacent polarisation foils and preventing any change in the liquid crystal thickness during the foil bending. Preferably the spacers are of double refractive or polarising type so that light on the strips can impinge both the polariser and analyser, at least partly. The polariser vector is so turned that it is twisted in a specified direction after passing through the strip.

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